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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,315	06/20/2003	Patrick T. Call	MESO0057	6960
7590 10/05/2004			EXAMINER	
LAW OFFICES OF RONALD M. ANDERSON Suite 507			RAEVIS, ROBERT R	
600 - 108th Avenue N.E.			ART UNIT	PAPER NUMBER
Bellevue, WA 98004			2856	
		DATE MAILED: 10/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/601,315	CALL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert R. Raevis	2856				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>13 September 2004</u> .						
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E.	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 9-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>9-38</u> is/are allowed.	6)⊠ Claim(s) <u>1</u> is/are rejected.					
6)⊠ Claim(s) <u>1</u> is/are rejected.						
•) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10)☐ The drawing(s) filed on is/are: a)☐ acce	0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hayes in view of Craggs.

Hayes teaches (Figure 2) an impeller to induce air flow, comprising: a base plate 40 and plurality of vanes 42 on a surface of the plate, having a ratio of the vane height to the base plate diameter in the range from .075 (1 inch/13.25 inches) to .217 (2.88 inches/13.25 inches).

The impeller ratio is not exactly within 0.01 to about 0.2 as claimed, the impeller does not speak of being an "impact collector", and the vanes are not curved.

As to claim 1, the .217 ratio (in the paragraph above) is "about 0.2" (last line of Applicant's claim 1). In the alternative, the "approximately" (col. 5, line 60) is suggestive of a blade height that is a bit smaller or larger, suggestive of application of a blade height of less than or equal to 2.65 inches (resulting in a ratio of exactly 0.2). In addition, the phrase "to function as a combined fan and impact collector" is expressly a statement of intended use, and thus no weight may be given to that phrase. In the alternative, the impeller relocates air and/or particulates, some of which subsequently remains in the impeller volume/walls. Finally, it would have been obvious to employ curved vanes in Hayes as Craggs teaches (col. 1, lines 50-55) use of curved blades to increase ventilation efficiency of an electric motor.

As to claim 9, note was made of the combination of the last 8 lines ("about 0.01 to about 0.2...fluid is drawn into the housingparticulates...impact upon the impeller, being thereby separated from the gaseous fluid when impacted by the vanes of the

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impeller") with remaining claim limitations. Regarding the Noll '405 reference, that reference does not suggest a housing as the manner of collection of blades 19 do not permit for drawing air into a housing. Noll's blades must be exposed to the open environment to collect any samples.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 7am to 3:30am. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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